

IN THE CLAIMS

Please amend the claims as follows:

- 1-7. (Canceled)
8. (Original) An apparatus to obtain a spatially-heterodyned hologram, comprising:
a source of coherent light energy;
a reference beam subassembly optically coupled to the source of coherent light;
an object beam subassembly optically coupled to the source of coherent light;
a beamsplitter optically coupled to both the reference beam subassembly and the object beam subassembly; and
a pixelated detection device coupled to the beamsplitter,
wherein the pixelated detection device is rotatable about an axis that is substantially normal to a focal plane of the pixelated detection device.
9. (Original) The apparatus of claim 8 wherein the reference beam subassembly does not include a reference beam mirror.
10. (Original) The apparatus of claim 9, wherein the reference beam subassembly includes a reference beam illumination lens.
11. (Original) The apparatus of claim 9, wherein the source of coherent light energy includes a laser.
12. (Original) The apparatus of claim 11, wherein the laser is operated in pulse mode.
13. (Original) The apparatus of claim 8, wherein the object beam subassembly includes a plurality of individually selectable objective lenses.

14. (Original) The apparatus of claim 8, wherein at least one subassembly selected from the group consisting of the reference beam subassembly and the object beam subassembly includes a spatial filter.

15. (Original) The apparatus of claim 8, wherein at least one subassembly selected from the group consisting of the reference beam subassembly and the object beam subassembly includes an acousto-optic modulator.

16. (Original) The apparatus of claim 8, wherein at least one subassembly selected from the group consisting of the reference beam subassembly and the object beam subassembly includes a polarizer.